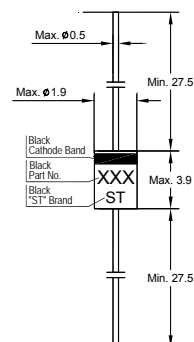


BAT42, BAT43

SCHOTTKY BARRIER DIODES

for general purpose applications



Glass Case DO-35
Dimensions in mm

Absolute Maximum Ratings ($T_a = 25\text{ }^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	30	V
Forward Continuous Current	I_F	200	mA
Repetitive Peak Forward Current (at $t_p < 1\text{ s}$)	I_{FRM}	500	mA
Surge Forward Current (at $t_p < 10\text{ ms}$)	I_{FSM}	4	A
Power Dissipation	P_{tot}	200	mW
Junction Temperature	T_j	125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 65 to + 150	$^\circ\text{C}$

Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Min.	Typ.	Max.	Unit
Forward Voltage at $I_F = 200\text{ mA}$	V_F	-	-	1	V
at $I_F = 10\text{ mA}$	BAT42 V_F	-	-	0.4	V
at $I_F = 50\text{ mA}$	BAT42 V_F	-	-	0.65	V
at $I_F = 2\text{ mA}$	BAT43 V_F	0.26	-	0.33	V
at $I_F = 15\text{ mA}$	BAT43 V_F	-	-	0.45	V
Reverse Breakdown Voltage at $I_R = 100\text{ }\mu\text{A}$	$V_{(BR)R}$	30	-	-	V
Reverse Leakage Current at $V_R = 25\text{ V}$	I_R	-	-	0.5	μA
Diode Capacitance at $V_R = 1\text{ V}$, $f = 1\text{ MHz}$	C_{tot}	-	7	-	pF
Reverse Recovery Time at $I_F = I_R = 10\text{ mA}$, $I_{rr} = 0.1 \times I_R$, $R_L = 100\text{ }\Omega$	t_{rr}	-	-	5	ns

BAT42, BAT43

